

# Work Order ID 85528

**\*85528\***

Page 1

June-08-12 2:50:08 PM

Item ID: D3551-11

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Hook and Loop Tie

Start Date: 08/06/2012 Start Qty: 10.00

**\*10\***

Cust Item ID:

Required Date: 22/06/2012 Req'd Qty: 10.00

**\*10\***

Customer:

Reference:

Approvals: Process Plan: MLJ

Date: 12/06/08

Tooling:

Date:

Run Start **\*NR1\***

QC:

Date:

SPC (Y/N):

Date:

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
<b>Draw Nbr</b>	<b>Revision Nbr</b>								
D3551	Rev A								
100	PURCHASING	0.00							
<b>*100*</b>									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>17182</u> Purchase Part Number: 6605K56 Supplier: Mc Master Carr Certificate of conformity is required								<u>CL 12/06/11</u> (10)
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
<b>*110*</b>									
Packaging	Memo	0.00							
Packaging	Ensure certificate of conformity is attached								<u>10x</u> <u>SP 12-6-12</u>
120	QC6- Inspect dimensions to drawing	0.00							
<b>*120*</b>									
QC	Memo	0.00							
Quality Control									<u>10x</u> <u>12-06-13</u>

# Work Order ID 85528

\*85528\*

Page 2

June-08-12 2:50:08 PM

Item ID: D3551-11

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Item Name: Hook and Loop Tie

Stop \*NS2\*

Start Date: 08/06/2012 Start Qty: 10.00

\*10\*

Cust Item ID:

Required Date: 22/06/2012 Req'd Qty: 10.00

\*10\*

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start \*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop \*NR2\*

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

130

Identify as per dwg & Stock Location: 246A

0.00

\*130\*

Packaging

Memo

0.00

Packaging

100

12/6/18

140

QC21- Final Inspection - Work Order Release

0.00

\*140\*

QC

Memo

0.00

Quality Control

12/6/18

12-06-18

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Supplier <input type="checkbox"/>		Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Other <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Supplier <input type="checkbox"/>																
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Other <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Offset/Setup									
Other									
Process									
Supplier									
Training									
Unauthorized									

**FAULT CATEGORY**

<b>Landing Gear</b>  <input type="checkbox"/> Bending Passes Below Min <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimp at Bending <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Other <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Ripples on Inner Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>Hardware</b>  <input type="checkbox"/> Breaking <input type="checkbox"/> Missing <input type="checkbox"/> Size/Length <input type="checkbox"/> Spinning <input type="checkbox"/> Threading <input type="checkbox"/> Wrong  <b>Drill Holes</b>  <input type="checkbox"/> Misaligned <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Undersized <input type="checkbox"/> Too Many	<b>General</b>  <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Documentation/Data <input type="checkbox"/> Finish <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Inspection Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Jigs/Fixtures/Tooling <input type="checkbox"/> Kit Incorrect <input type="checkbox"/> Kit Missing	<input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Off-Set <input type="checkbox"/> Orientation Misread <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Lost <input type="checkbox"/> Part Moved <input type="checkbox"/> Raw Material	<input type="checkbox"/> Set-up <input type="checkbox"/> Supplier <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other _____ _____ _____
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# Picklist Print

June-08-12 2:50:12 PM

Page 1

Work Order ID: 85528

**\*85528\***

Parent Item: D3551-11

**\*D3551-11\***

Parent Item Name: Hook and Loop Tie

Start Date: 08/06/2012

Required Date: 22/06/2012

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev:A New Issue 06-09-27 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
6605K56		Purchased	No			110	Each	0.0000	1	10			

**\*6605K56\***

HOOK AND LOOP TIE

**\*\***

10x 8p 12-6-12.

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Supplier <input type="checkbox"/>		Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Other <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Supplier <input type="checkbox"/>																
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Other <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Offset/Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unauthorized <input type="checkbox"/>									

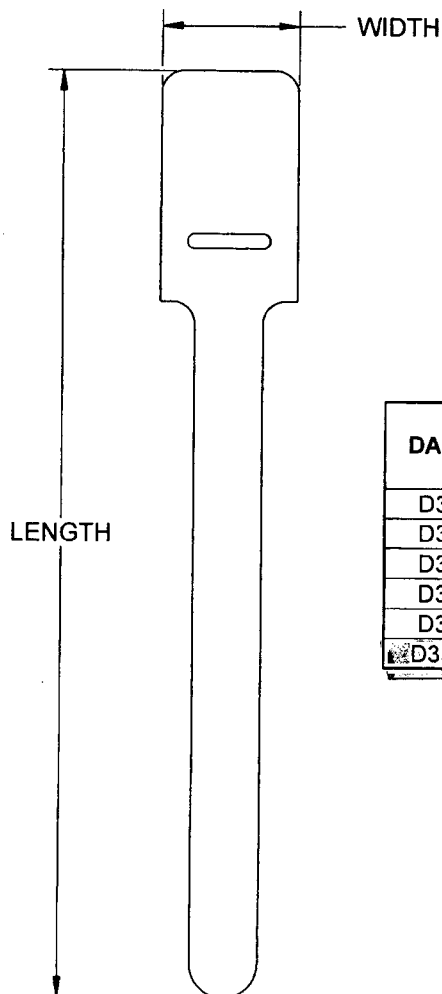
**FAULT CATEGORY**

<b>Landing Gear</b> <input type="checkbox"/> Bending Passes Below Min <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimp at Bending <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Other <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Ripples on Inner Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>Hardware</b> <input type="checkbox"/> Breaking <input type="checkbox"/> Missing <input type="checkbox"/> Size/Length <input type="checkbox"/> Spinning <input type="checkbox"/> Threading <input type="checkbox"/> Wrong  <b>Drill Holes</b> <input type="checkbox"/> Misaligned <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Undersized <input type="checkbox"/> Too Many	<b>General</b> <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Documentation/Data <input type="checkbox"/> Finish <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Inspection Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Jigs/Fixtures/Tooling <input type="checkbox"/> Kit Incorrect <input type="checkbox"/> Kit Missing	<input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Off-Set <input type="checkbox"/> Orientation Misread <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Lost <input type="checkbox"/> Part Moved <input type="checkbox"/> Raw Material  <input type="checkbox"/> Set-up <input type="checkbox"/> Supplier <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other
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DESIGN <i>LE</i>	DRAWN BY <i>LE</i>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>q</i>	APPROVED <i>[Signature]</i>	DRAWING NO. <b>D3551</b>	REV. A SHEET 1 OF 1
DATE <b>06.08.28</b>		TITLE <b>HOOK AND LOOP TIE</b> SCALE NTS	
REV A	DATE 06.08.28	DESCRIPTION NEW ISSUE	

## SPECIFICATION CONTROL DRAWING



DART P/N	LENGTH (in)	WIDTH (in)	MCMMASTER-CARR P/N	SPEEDTECH P/N
D3551-1	6	1	6605K51	SW.75X6BK889
D3551-3	8	1	6605K52	SW.75X8BK889
D3551-5	11	1	6605K53	SW.75X11BK889
D3551-7	15	1.5	6605K54	SW1.5X15BK889
D3551-9	18	1.5	6605K55	SW1.5X18BK889
D3551-11	24	1.5	6605K56	SW1.5X24BK889

**D3551-X HOOK AND LOOP TIE**

SHOP COPY  
RETURN TO:  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. *85528 MC5*  
*12/04/08*

MATERIAL: BLACK BACK-TO-BACK HOOK AND LOOP MATERIAL, FLAME-RETARDANT NYLON

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200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
ple.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

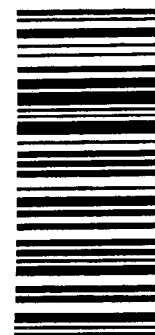
McMaster-Carr Number  
5884641-02

06/11/2012

Line	Description	Ordered	Shipped		
1	6605K56 Hook and Loop Cable Tie, Black Flame-Retardant Wrap Around, 24" L, 3/4" Width, Packs of 5	2 Packs	2	3 - 125 - 11	43 - 39 K56 2PK 1
	Unit Price:	\$13.89			
	Extended Price:	\$27.78			
	2820A72 Convex-Radius High-Speed-Steel End Mill for Curved Edges, 1/16" Radius, 1/2" Shank Diameter, 3/4" Mill Diameter	2 Each	2	2 - 515	2
	Unit Price:	\$55.55			
	Extended Price:	\$111.10			
3	8324A02 Cobalt Steel Decimal Size Chucking Reamer, .0490" Diameter, 1/2" Flute Length, .0455" Shank	2 Each	2	2 - 502	3
	Unit Price:	\$19.05			
	Extended Price:	\$38.10			
	8841A21 Multi-Diameter Step Drill Bit, High-Speed-Steel, 13 Sizes, 1/8"-1/2", 1/4" Shank Diameter, 1/8" Max Thickness	12 Each	12	2 - 507	4
	Unit Price:	\$18.43			
	Extended Price:	\$221.16			

Dart Aerospace Ltd

EXP  
INV  
NAFTA



2 lbs  
4 lines

Lg

38x12x12

FW1BSP39  
06/11/2012  
13:48/14:22  
875  
Cycle 46

1140403784681



Purchase Order  
**PO17182**

Page 2 of 2

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

McMaster-Carr Number  
**5884641-02**

06/11/2012

Charges for this shipment

---

Merchandise Amount:	\$398.14
<b>Total:</b>	<b>\$398.14</b>



McMaster-Carr Supply Company  
200 Aurora Industrial Pkwy  
Aurora, OH 44202-8087 USA  
Phone: 330-995-5500 Fax: 330-995-9600  
E-Mail: cle.sales@mcmaster.com  
Employer Identification Number (EIN): 36-1458720

Invoice: 28765092  
Purchase Order: PO17182  
Release:  
McMaster-Carr Number: 5884641-02

ORIGINAL COMMERCIAL  
**INVOICE**  
CERTIFICATE OF ORIGIN

Ultimate Destination:  
Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Shipped: 11-Jun-2012 FOB: ORIGIN  
Shipper's Export Declaration (SED):  
NO EEI 30.36

Intermediate Consignee:

Bill To:  
Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Tax Number:

Forwarding Agent:

Billing  
Attention:  
Shipping  
Attention:  
Contact:

Line	Description	Qty & Unit	Unit Price	Extension
1	6605K56 Hook and Loop Cable Tie, Black Flame-Retardant Wrap Around, 24" L, 3/4" Width, Packs of 5  Country of Origin: United States Schedule B #: 392690 ECCN #: EAR99 NLR	2 PK	\$13.89	\$27.78
2	2820A72 Convex-Radius High-Speed-Steel End Mill for Curved Edges, 1/16" Radius, 1/2" Shank Diameter, 3/4" Mill Diameter  Country of Origin: United States Schedule B #: 820770 ECCN #: EAR99 NLR	2 EA	\$55.55	\$111.10
3	8324A02 Cobalt Steel Decimal Size Chucking Reamer, .0490" Diameter, 1/2" Flute Length, .0455" Shank  Country of Origin: United States Schedule B #: 820760 ECCN #: EAR99 NLR	2 EA	\$19.05	\$38.10
4	8841A21 Multi-Diameter Step Drill Bit, High-Speed-Steel, 13 Sizes, 1/8"-1/2", 1/4" Shank Diameter, 1/8" Max Thickness  Country of Origin: United States Schedule B #: 820750 ECCN #: EAR99 NLR	12 EA	\$18.43	\$221.16
NOTE Tracking number(s) for this shipment: 524504284671				
This transaction is subject to McMaster-Carr Supply Company's terms and conditions of sale. No other terms and conditions of sale shall apply to this transaction.				
These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to US law is prohibited.				

Shipping Weight (in kgs): 2

Number of Packages: 1

Invoice Amounts:

Merchandise Amount: \$398.14

Package Dimensions:

13 X 32 X 18 CM = .007 CUBIC M

Total (In USD): \$398.14

Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days

Remit payment to:

(by wire transfer)

(by mail)

McMaster-Carr Supply Company  
PO Box 7690  
Chicago, IL 60680-7690 USA

Bank of America Illinois  
231 S LaSalle

Chicago, IL 60697  
ABA 071000039 Account 86666-02021  
SWIFT BOFAUS3N

Authorized Signature:

Date:

11-Jun-2012

Name: Jason Wolfe

Title: Operations Mgr.

Page 1 of 1

DEPARTMENT OF HOMELAND SECURITY  
U.S. Customs and Border Protection

**NORTH AMERICAN FREE TRADE AGREEMENT  
CERTIFICATE OF ORIGIN**

19 CFR 181.11, 181.22

**1. EXPORTER NAME AND ADDRESS**

McMaster-Carr Supply Company  
200 Aurora Industrial Pkwy  
Aurora, OH 44202-8087 USA

**2. BLANKET PERIOD**

TAX IDENTIFICATION NUMBER: 36-1458720

**3. PRODUCER NAME AND ADDRESS**

AVAILABLE TO CUSTOMS UPON REQUEST

**4. IMPORTER NAME AND ADDRESS**

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

TAX IDENTIFICATION NUMBER:

TAX IDENTIFICATION NUMBER:

5. DESCRIPTION OF GOOD(S)		6. HS TARIFF CLASSIFICATION NUMBER	7. PREFERENCE CRITERION	8. PRODUCER	9. NET COST	10. COUNTRY OF ORIGIN
1 6605K56	2 Packs Hook and Loop Cable Tie, Black Flame-Retardant Wrap Around, 24" L, 3/4" Width	392690	C	NO (2)	NO	US
2 820A72	2 Each Convex-Radius High-Speed-Steel End Mill for Curved Edges, 1/16" Radius, 1/2" Shank Diameter, 3/4" Mill Diameter	820770	C	NO (2)	NO	US
4 8841A21	12 Each Multi-Diameter Step Drill Bit, High-Speed-Steel, 13 Sizes, 1/8"-1/2", 1/4" Shank Diameter, 1/8" Max Thickness	820750	B	NO (3)	NO	US

Invoice: 28765092  
Purchase Order: PO17182  
Release:  
McMaster-Carr Number: 5884641-02

**I CERTIFY THAT:**

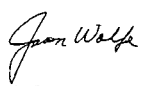
THE INFORMATION ON THIS DOCUMENT IS TRUE AND ACCURATE AND I ASSUME THE RESPONSIBILITY FOR PROVIDING SUCH REPRESENTATIONS.  
I UNDERSTAND THAT I AM LIABLE FOR ANY FALSE STATEMENTS OR MATERIAL OMISSIONS ON OR IN CONNECTION WITH THIS DOCUMENT;

I AGREE TO MAINTAIN AND PRESENT UPON REQUEST, DOCUMENTATION NECESSARY TO SUPPORT THIS CERTIFICATE, AND TO INFORM, IN WRITING,  
ALL PERSONS TO WHOM THIS CERTIFICATE WAS GIVEN OF ANY CHANGES THAT COULD AFFECT THE ACCURACY OR VALIDITY OF THIS CERTIFICATE;

THE GOODS ORIGINATED IN THE TERRITORY OF ONE OR MORE OF THE PARTIES, AND COMPLY WITH THE ORIGIN REQUIREMENTS SPECIFIED FOR  
THOSE GOODS IN THE NORTH AMERICAN FREE TRADE AGREEMENT AND UNLESS SPECIFICALLY EXEMPTED IN ARTICLE 411 OR ANNEX 401. THERE  
HAS BEEN NO FURTHER PRODUCTION OR ANY OTHER OPERATION OUTSIDE THE TERRITORIES OF THE PARTIES;

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT  
ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED; AND

THIS CERTIFICATE CONSISTS OF 1 PAGE(S), INCLUDING ALL ATTACHMENTS.

11.	11a. AUTHORIZED SIGNATURE 		11b. COMPANY McMaster-Carr Supply Company	
	11c. NAME (Print or Type) Jason Wolfe		11d. TITLE Operations Mgr.	
	11e. DATE (MM/DD/YYYY) 06/11/2012	11f. TELEPHONE NUMBER	(Voice) +1-330-995-5500	(Facsimile) +1-330-995-9600



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO17182

Purchase Order Date 6/11/12

PO Print Date 6/11/12

Page Number 1 of 2

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

Contact Name

Vendor Phone 330 995 5500

Vendor Fax 330 995 9600

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**  
6/12/12

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	6605K56	HOOK AND LOOP TIE	6/13/12 Yes	10.00 Each	FedEx PI collect	\$2.7780	\$27.78
		Special Inst:	AS PER DWG D3551 REV. A B85528				
2		2820A72 CONVEX CUTTER	6/13/12 Yes	2.00 Each	FedEx PI collect	\$55.5500	\$111.10
		Deliver To: CNC					
		8324A02 0.0490" REAMER	6/13/12 Yes	2.00 Each	FedEx PI collect	\$19.0500	\$38.10
		Deliver To: RUSS					
4		8841A21 1/8"-1/2" STEP DRILL	6/13/12 Yes	12.00 Each	FedEx PI collect	\$18.4300	\$221.16

No substitution or deviation without  
consent.

Certificate of Conformity or Material  
Certification required YES NO

Change Nbr: 3

Change Date: 6/11/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO17182

Purchase Order Date 6/11/12

PO Print Date 6/11/12

Page Number 2 of 2

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

Contact Name

Vendor Phone 330 995 5500

Vendor Fax 330 995 9600

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Deliver To: DAN.P

9001K31 U-CHANNEL

6/13/12

Yes

1.00  
Each

FedEx PI collect

\$11.6000

\$11.60

Deliver To: ROGER

PO Total:

\$409.74

Change Nbr: 3

Change Date: 6/11/12

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required - YES NO

# Purchase Order Requisition

Friday, June 08, 2012 2:04:11 PM

Page 1

Purchase Requisition Nbr: PR100230

Submitted By: Jean-Luc Menard

Date Submitted: 6/8/2012 2:03:56 PM

Current Status: Pending

Notes:

Line Nbr 1

Material Requested: CONVEX CUTTER #2820A72

Reason:

Quantity Required: 2 Est. Unit Cost: \$55.55 Ext. Cost: - \$111.10

Suggested Vendor Info:

Vendor ID: VU-MCM001

Vendor Name: McMaster-Carr Supply Co,

Address: P.O. Box 7690

Phone Number: 330 995 5500

Email:

Vendor P/N:

Vendor Desc:

Mfg P/N:

Mfg Desc:

CNC 71500-



Need help finding a product?  
E-mail or call (562) 463-4277.

## High-Speed Steel and Cobalt Steel Chucking Reamers

Straight-flute reamers are used for most jobs.

### High-Speed Steel Decimal Sizes—Round Shank with Straight Flutes

#### Straight Flute

Flute length, overall length, and number of flutes are equivalent to dimensions of fractional, letter size, and wire gauge size chucking reamers. Shank diameter is slightly smaller than the reamer cutting diameter. Cutting diameter tolerance is +0.0002", -0.0000".

**To Order:** For standard decimal sizes in increments of 0.0005" (size must end in 0 or 5), please select the part number in the appropriate size range and specify the exact size.

**Also Available:** Other decimal sizes in increments other than 0.0001". Please select 8803A999 and specify the exact size.

Available Diameters	Each
0.0405"-0.0620"	8803A11 \$15.74

### Cobalt Steel Decimal Sizes—Round Shank with Straight Flutes

#### Straight Flute

Flute length, overall length, and number of flutes are equivalent to dimensions of fractional, letter, and wire gauge size chucking reamers. Shank diameter is slightly smaller than the reamer cutting diameter. Cutting diameter tolerance is +0.0002", -0.0000".

Dia.	Each
0.0490"	8324A02 \$19.05

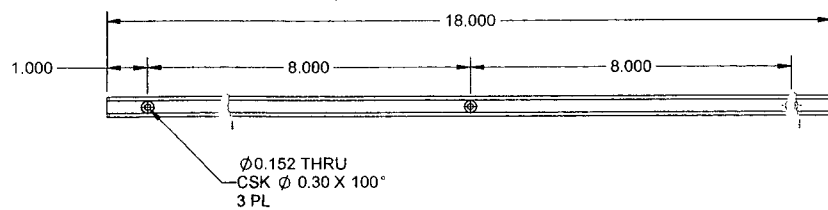
Catalog Page | Bookmark |

☐ Each

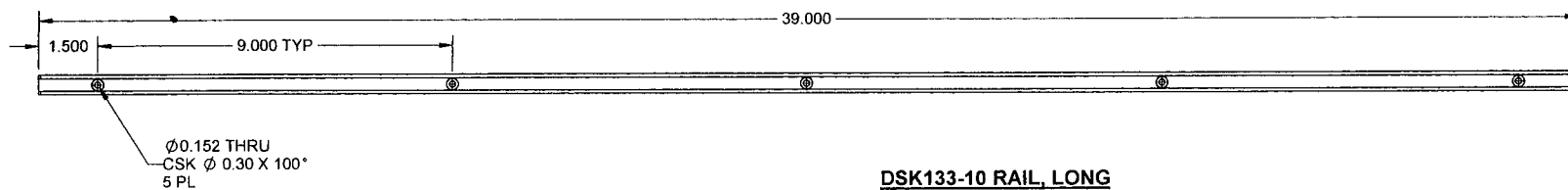
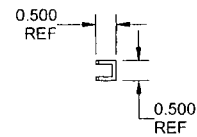
In stock

Cobalt Steel Decimal Size  
Chuckling Reamer .0490"  
Diameter, 1/2" Flute Length,  
.0455" Shank

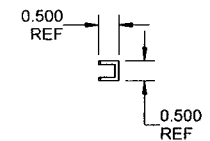
### Cobalt Steel Decimal Sizes—Round Shank with Straight Flutes



**DSK133-09 RAIL, SHORT**



**DSK133-10 RAIL, LONG**



11.60

**NOTES:**

- 1) MATERIAL: MAKE FROM MCMASTER CARR P/N 9001K31
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A

DESIGN	RP	<b>DART AEROSPACE LTD</b>	
DRAWN	RP	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. PA1
MFG. APPR.		<b>DSK133</b>	SHEET 11 OF 11
APPROVED		TITLE	SCALE
DE APPR.		<b>SENSOR GANTRY, THERMOFORMER</b>	NTS
DATE	12.05.23	<small>COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	